

Teacher At Sea – Lesson Plan #3

Carol Glor – 2014
Sea Scallop Survey – 3rd Leg

Activity Title: NOAA Ocean Career Exploration

Subject (Focus/Topic): Home & Career Skills students will explore the many ocean careers available through NOAA.

Grade Level: 8th grade

Average Learning Time: 1 (40 minute) class period

Lesson Summary: Students will be able to describe what it might be like in a particular NOAA ocean career.

Overall Concept: What are the specific job duties and education/training that are required for a particular NOAA ocean career?

Specific Concepts: Students will learn about careers that are available through NOAA by reading interviews posted on the oceanexplorer website.

Focus Questions:

- Describe what your day might be like if you had this job.
- How did this explorer become interested in their chosen career?
- What is most rewarding about this explorer's career?
- What education or training is required for this career?
- How does this career contribute to our understanding of the ocean?

Objectives/Learning Goals:

- The student will explore and understand career opportunities available to them through NOAA.
- The student will be able to make informed decisions and set goals based on the information found through completion of this activity.

Background Information: This is an introduction to our career exploration unit. Students have had previous experience in conducting research regarding careers during 7th grade Home & Career Skills.

Common Misconceptions/Preconceptions: Students have many misconceptions about ocean careers. These are greatly influenced by television, movies and the media. Oftentimes, students claim that becoming a marine biologist or underwater filmmaker is the career of their dreams but most do not understand what that job actually entails. By conducting this type of career exploration, students will be given first-hand information about potential ocean careers.

Materials:

- Ocean Explorer Careers worksheet

Technical Requirements:

- Computer lab access or laptop cart with internet capabilities.

Teacher Preparation: In order to teach this lesson effectively, the teacher must thoroughly understand the NOAA Teacher at Sea program as well as being able to navigate the NOAA websites. Knowledge in marine science careers would be helpful .

Keywords: Not applicable.

Pre-assessment Strategy: Students previously completed the NOAA Careers checklist. The teacher evaluated the class results and paired students according to their top career choices.

Lesson Procedure:

- As students arrive to the classroom, assign the career that they will be exploring with their assigned partner. The pair should sit next to each other and log onto their own workstation.
- Each pair of students will be given an Ocean Explorer Careers packet to be completed together.
- The website for this activity is <http://oceanexplorer.noaa.gov/edu/oceanage/>

Assessment and Evaluation: Student pairs will be required to completely answer all of the questions in the packet. The grade for this assignment will be determined by the completeness of the packet and the cooperative effort put into the activity. Students will be required to fully explore the website including audio and video components as well as each of the information tabs in order to glean enough information to completely answer each of the questions.

Standards:

- National Science Education Standards Addressed:
 - Next Generation Science Standards:
 - Science and Engineering Practices
 - Analyzing and interpreting data
 - Engaging in argument from evidence
 - Obtaining, evaluating and communicating information
 - Asking questions and defining problems
 - Disciplinary core ideas
 - ESS3 – Earth and Space Science 3
- Ocean Literacy Principles Addressed:
 - 5 – The ocean supports a great diversity of life and ecosystems.
 - 6 – The ocean and humans are inextricably interconnected.
- New York State Science Standards Addressed:
 - MST standard 4
- New York State Family and Consumer Science Standards Addressed:
 - Standard 3 – Resource Management
- National Family and Consumer Science Standards Addressed:
 - 1 – Career, community & family connections
 - 8 – Food production & services
- Common Core Career Technical Core

- Career ready practices
 - 5 – Consider the environmental, social and economic impacts of decisions
 - 7 – Employ valid and reliable research strategies
- Career technical core
 - Agriculture, Food & Natural Resources Cluster
 - Science, Technology, Engineering & Mathematics Career Cluster

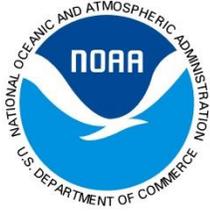
Additional Resources:

- www.bls.gov
- www.chroniclecareerlibrary.com/login
- www.onetonline.org/find/
- www.careerzone.ny.gov/views/careerzone/index.jsf
- www.mappingyourfuture.org
- www.vaview.vt.edu/68/check-it/who-r-u/

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Ocean Explorer Careers

Go To: <http://oceanexplorer.noaa.gov/edu/oceanage/>

Select your assigned career from the list of links.

Name(s): _____

Name of Explorer: _____

Job Title of Explorer: _____

Describe what your day might be like if you had this job: _____

Where has this explorer traveled to do their work? _____

How did this explorer become interested in their chosen career? _____

Often our first inspiration to be curious and explore comes from our parents and teachers. Who was your explorer inspired by? _____

What was your explorer's first career-related job? _____

Why does this explorer like their job(what is most rewarding about it)? _____

What aspect of this career do **YOU** find most interesting? _____

What education or training is required for this career? _____

What kind of work schedule is expected for this explorer? _____

What specific kinds of tools are used as part of this job? _____

What difficulties or dangers are associated with this career? _____

How does this career contribute to society or our understanding of the ocean?

Check out the MORE INFORMATION tab and complete the following:

Resource Name: _____

What is interesting about this resource? _____

What new information did you learn as a result of this activity? _____
